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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/596,022	05/25/2006	Toshiharu Furukawa	FIS920030339US1	1812
	7590 12/30/200 NAL BUSINESS MAC	EXAMINER		
DEPT. 18G BLDG. 321-482		GEBREYESUS, YOSEF		
2070 ROUTE 5		ART UNIT	PAPER NUMBER	
HOPEWELL JU	UNCTION, NY 12533	2811		
			NOTIFICATION DATE	DELIVERY MODE
			12/30/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

EFIPLAW@US.IBM.COM

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
10/596,022	FURUKAWA ET AL.	
Examiner	Art Unit	
LXAIIIIIEI	Art Unit	

	TOSEF GEBRETESUS	2011					
The MAILING DATE of this communication appe	ars on the cover sheet with the c	correspondence add	ress				
THE REPLY FILED <u>24 November 2009</u> FAILS TO PLACE THIS	APPLICATION IN CONDITION F	OR ALLOWANCE.					
1. The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following application in condition for allowance; (2) a Notice of Appelor Continued Examination (RCE) in compliance with 37 C periods:	replies: (1) an amendment, affidavi eal (with appeal fee) in compliance	t, or other evidence, w with 37 CFR 41.31; or	hich places the (3) a Request				
a) The period for reply expiresmonths from the mailing							
b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire Is Examiner Note: If box 1 is checked, check either box (a) or (MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f	ater thán SIX MONTHS from the mailing b). ONLY CHECK BOX (b) WHEN THE).	g date of the final rejection FIRST REPLY WAS FI	on. LED WITHIN TWO				
Extensions of time may be obtained under 37 CFR 1.136(a). The date of have been filed is the date for purposes of determining the period of extunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	ension and the corresponding amount of hortened statutory period for reply origi	of the fee. The appropria nally set in the final Offic	ate extension fee e action; or (2) as				
2. The Notice of Appeal was filed on . A brief in comp	liance with 37 CFR 41.37 must be t	filed within two months	s of the date of				
filing the Notice of Appeal (37 CFR 41.37(a)), or any exter Notice of Appeal has been filed, any reply must be filed wi AMENDMENTS	nsion thereof (37 CFR 41.37(e)), to	avoid dismissal of the					
3. The proposed amendment(s) filed after a final rejection, b	out prior to the date of filing a brief,	will not be entered be	cause				
(a) They raise new issues that would require further cor	•	ΓE below);					
(b) They raise the issue of new matter (see NOTE below	•						
(c) They are not deemed to place the application in beti	er form for appeal by materially rec	ducing or simplifying the	ne issues for				
appeal; and/or (d) ☐ They present additional claims without canceling a c	corresponding number of finally raise	acted claims					
NOTE: <u>See continuation sheet</u> . (See 37 CFR 1.11		otod cidii iis.					
4. The amendments are not in compliance with 37 CFR 1.12		mnliant Amendment (PTOL-324)				
5. Applicant's reply has overcome the following rejection(s):		impliant / imonament (1 102 02-7.				
6. Newly proposed or amended claim(s) would be all		imely filed amendmer	nt canceling the				
non-allowable claim(s).	owasie ii ousiiillou iii a ooparate, t	annery med anneriamen	it dandeling the				
7. For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is proved the status of the claim(s) is (or will be) as follows:		l be entered and an e	xplanation of				
Claim(s) allowed:							
Claim(s) objected to:							
Claim(s) rejected: <u>1-10</u> . Claim(s) withdrawn from consideration:							
AFFIDAVIT OR OTHER EVIDENCE							
 The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e). 							
9. The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to o showing a good and sufficient reasons why it is necessary	vercome <u>all</u> rejections under appea	al and/or appellant fail	s to provide a				
10. \square The affidavit or other evidence is entered. An explanation	n of the status of the claims after er	ntry is below or attach	ed.				
REQUEST FOR RECONSIDERATION/OTHER							
11. The request for reconsideration has been considered but	does NOT place the application in	condition for allowan	ce because:				
12. Note the attached Information <i>Disclosure Statement</i> (s). (13. Other:	PTO/SB/08) Paper No(s)						
/Lynne A. Gurley/							
Supervisory Patent Examiner, Art Unit 2811							

Continuation Sheet (PTO-303)

Application No.

Continuation of 3. Note: Regarding claim 1; Applicant argues that the prior art does not teach or suggest the following feature. The layer 105 of the prior art (Roesner) can not be considered as a substrate. However, the examiner respectfully disagrees. The examiner considered the layer in which the semiconductor devices are fabricated to be a substrate. Therefore, the rejection still stands.

Regarding claim 3; Applicant argues that the carbon nano tubes do not form open cylinder structure. However, examiner respectfully disagrees. The final structure of the claimed invention after a trench conductor is filled (claim 1) does not have an open cylinder structure. However, the pior art disloses the carbon nano tubes 107 are formed in the hole 106 and before the layer 109 is formed the carbon nanotubes form an open cyclinder in the regions between 104 and 107.

Regarding claim 11; the limitation "forming an open cylinder in lining said trench" changed the scope of the invention, due to the omission of the limitations "side walls" and "through said layer of trench dielectric" from the original claim 3, thus raising new issues which requires further search and/or reconsideration.